

### **ABSTRACT OF THE DISCLOSURE**

An x-ray diagnostic device has an x-ray source to generate x-rays, an x-ray detector to acquire x-ray images and transduce them into an electrical signal sequence, an image system to process the electrical signal sequence, and a playback device. The image system has a unit to detect edges in individual x-ray images and a unit to filter the individual x-ray images along these edges. The individual image processing can ensue in real time. Based on a signal adaptation by the detection of the weighting of the edges, the filtering can be implemented along these edges.

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